CLAIMS

What is claimed is:

1.   A method for encoding and decoding video and non-video information, the method comprising:

creating a second symbol from a first codeword;

generating at least one of a TERC4 symbol, a TMDS symbol and a guard band symbol from at least a portion of said second symbol if said at least one of said TERC4 symbol, said TMDS symbol and said guard band symbol is at least a portion of a transmitted signal; and

generating said first codeword from at least a portion of a third symbol if said third symbol is at least a portion of a received signal.

2.   The method according to claim 1, further comprising TMDS encoding of at least a portion of said first codeword to generate a TMDS symbol for said at least a portion of said transmitted signal.

3.   The method according to claim 2, further comprising TMDS encoding of at least a portion of said second symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal.

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4.   The method according to claim 3, further comprising TMDS encoding of at least a portion of said second symbol to generate a guard band symbol for said at least a portion of said transmitted signal.

5.   The method according to claim 4, wherein said TMDS encoding of at least said portion of said second symbol to generate said TERC4 symbol and said TMDS encoding of at least said portion of said second symbol to generate said guard band symbol further comprises encoding said TERC4 symbol and said guard band symbol into a single symbol for said at least a portion of said transmitted signal.

6.   The method according to claim 1, further comprising TMDS decoding of said at least a portion of said received signal to generate said first codeword.

7.   The method according to claim 6, further comprising TMDS decoding of said at least a portion of said received signal comprising said third symbol to generate said second symbol.

8.   The method according to claim 7, further comprising decoding of said at least a portion of said second symbol to generate said first codeword.

9.   The method according to claim 1, wherein said first codeword is a 4-bit pre-TERC4 codeword.

10. The method according to claim 1, wherein said second symbol is an 8-bit pre-TMDS symbol.

11. A machine-readable storage having stored thereon, a computer program having at least one code section for encoding and decoding video and non-video information, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

creating a second symbol from a first codeword;

generating at least one of a TERC4 symbol, a TMDS symbol and a guard band symbol from at least a portion of said second symbol if said at least one of said TERC4 symbol, said TMDS symbol and said guard band symbol is at least a portion of a transmitted signal; and

generating said first codeword from at least a portion of a third symbol if said third symbol is at least a portion of a received signal.

12. The machine-readable storage according to claim 11, further comprising code for TMDS encoding of at least a portion of said first codeword to generate a TMDS symbol for said at least a portion of said transmitted signal.

13.   The machine-readable storage according to claim 12, further comprising code for TMDS encoding of at least a portion of said second symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal.

14.   The machine-readable storage according to claim 13, further comprising code for TMDS encoding of at least a portion of said second symbol to generate a guard band symbol for said at least a portion of said transmitted signal.

15.   The machine-readable storage according to claim 14, wherein said code for TMDS encoding of at least said portion of said second symbol to generate said TERC4 symbol and said code for TMDS encoding of at least said portion of said second symbol to generate said guard band symbol further comprises code for encoding said TERC4 symbol and said guard band symbol into a single symbol for said at least a portion of said transmitted signal.

16.   The machine-readable storage according to claim 11, further comprising code for TMDS decoding of said at least a portion of said received signal to generate said first codeword.

17.   The machine-readable storage according to claim 16, further comprising code for TMDS decoding of said at least a portion of said received signal comprising said third symbol to generate said second symbol.

18.   The machine-readable storage according to claim 17, further comprising code for decoding of said at least a portion of said second symbol to generate said first codeword.

19.   The machine-readable storage according to claim 11, wherein said first codeword is a 4-bit pre-TERC4 codeword.

20.   The method according to claim 11, wherein said second symbol is an 8-bit pre-TMDS symbol.

21.   A system for encoding and decoding video and non-video information, the system comprising:

a first encoder adapted to encode a first codeword to a second symbol;

a second encoder adapted to generate at least one of a TERC4 symbol, a TMDS symbol and a guard band symbol from at least a portion of said second symbol if said at least one of said TERC4 symbol, said TMDS symbol and said guard band symbol is at least a portion of a transmitted signal; and

a first decoder adapted to generate said first codeword from at least a portion of a third symbol if said third symbol is at least a portion of a received signal

22.   The system according to claim 21, wherein said second encoder is adapted to TMDS encode at least a portion of said first codeword to generate a TMDS symbol for said at least a portion of said transmitted signal.

23.   The system according to claim 22, wherein said second encoder is adapted to TMDS encode at least a portion of said second symbol to generate a TERC4 symbol for said at least a portion of said transmitted signal.

24.   The system according to claim 23, wherein said second encoder is adapted to TMDS encode at least a portion of said second symbol to generate a guard band symbol for said at least a portion of said transmitted signal.

25.   The system according to claim 24, wherein said second encoder is adapted to TMDS encode said TERC4 symbol and said guard band symbol into a single symbol for said at least a portion of said transmitted signal.

26.   The system according to claim 21, wherein said first decoder adapted to TMDS decode said at least a portion of said received signal to generate said first codeword.

27.   The system according to claim 26, wherein said first decoder is adapted to TMDS decode said at least a portion of said received signal comprising said third symbol to generate said second symbol.

28.   The system according to claim 27, wherein said first decoder is adapted to decode said at least a portion of said second symbol to generate said first codeword.

29.   The system according to claim 21, wherein said first codeword is a 4-bit pre-TERC4 codeword.

30.   The system according to claim 21, wherein said second symbol is an 8-bit pre-TMDS symbol.